PCT

REQUEST

For receiving Office use only	_
International Application No.	
International Filing Date	
No. 6 11	
Name of receiving Office and "PCT International Application"	_

	International Filing Da	ate
The undersigned requests that the present international application be processed		
according to the Patent Cooperation Treaty.		fice and "PCT International Application"
Box No. 1 TITLE OF INVENTION	Applicant's or agent's (if desired) (12 charact	s file reference ters maximum) sta.2744.pct.df.i
THE OF MITTER	_	·
Improved vertical external cavity surface emitting	g laser	
	n is also inventor	
Name and address: (Family name followed by given name: for a legal entit The address must include postal code and name of country. The country of th Box is the applicant's State (that is, country) of residence if no State of residence	ty. full official designation. re address indicated in this ce is indicated below.)	Telephone No.
University of Strathclyde		Facsimile No.
16 Richmond Street		
GLASGOW		Teleprinter No.
G1 1XQ	1	
UNITED KINGDOM		Applicant's registration No. with the Office
State (that is, country) of nationality: GB	State (that is, country) GB	of residence:
This person is applicant all designated all designated	States except	the United States the States indicated in
	ates of America	of America only the Supplemental Box
Name and address: (Family name followed by given years) for a last		
The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of presidence if no State of residence.		This person is:
Abram, Richard H	e is indicated below.)	applicant only
1/3 Drumsheugh Gardens	1	applicant and inventor
EDINBURGH	J	
EH3 7QJ	J	inventor only (If this check-box is marked, do not fill in below.)
UNITED KINGDOM		Applicant's registration No. with the Office
State (design		
State (that is, country) of nationality: GB	State (that is, country)	of residence:
This person is applicant all designated all designated	States except 557 at	
for the purposes of: States the United State	tes of America	the United States indicated in the Supplemental Box
11 (contact) inventors are indicated off		
Box No. IV AGENT OR COMMON REPRESENTATIVE;		CORRESPONDENCE
The person identified below is hereby/has been appointed to act on of the applicant(s) before the competent International Authorities as	s: 🔼 a	agent common representative
Name and address: (Family name followed by given name; for a legal entity, The address must include postal code and name of cou		Telephone No.
Kennedys Patent Agency Limited	· · · · · · · · · · · · · · · · · · ·	0044 (0)141 226 6826 Facsimile No.
Floor 5 Queens House		0044 (0)141 226 6838
19-29 St Vincent Place	_	Teleprinter No.
GLASGOW	1	Teleprinter No.
G1 2DT	·	Agent's registration No. with the Office
UNITED KINGDOM		
Address for correspondence: Mark this check-box where no space above is used instead to indicate a special address to wh	agent or common repre	esentative is/has been appointed and the

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)				
If none of the following sub-boxes is used, thi				rest.
Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Ferguson, Allister I c/o University of Strathclyde			n shie	This person is: applicant only applicant and inventor
16 Richmond Street GLASGOW				inventor only (If this check-box is marked, do not fill in below.)
G1 1XQ UNITED KINGDOM				Applicant's registration No. with the Office
State (that is, country) of nationality: GB		State (that is, con	untry) (of residence:
This person is applicant for the purposes of:		tes of America	<u> </u>	the United States indicated in the Supplemental Box
Name and address: (Family name followed by given in The address must include postal code and name of count Box is the applicant's State (that is, country) of residence Riis, Erling	irv. The country of the	address indicated in	tion. this	This person is: applicant only
8 Campsie Dene Road Blanefield G63 9BN				inventor only (If this check-box is marked, do not fill in below.)
UNITED KINGDOM			[Applicant's registration No. with the Office
State (that is, country) of nationality: DENMARK		State (that is, con	intry) c	of residence:
This person is applicant all designated for the purposes of:	all designated the United State			e United States the States indicated in the Supplemental Box
Name and address: (Family name followed by given n The address must include postal code and name of count Box is the applicant's State (that is, country) of residence	rv. The country of the	address indicated in	this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) applicant's registration No. with the Office
State (that is, country) of nationality:		State (that is, cou		
				i residence.
This person is applicant for the purposes of:	all designated S the United State	States except es of America		e United States America only the States indicated in the Supplemental Box
Name and address: (Family name followed by given me The address must include postal code and name of counts Box is the applicant's State (that is, country) of residence.	rv. The country of the	address indicated in	this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) applicant's registration No. with the Office
State (that is, country) of nationality:		State (that is, cour	<i>itry)</i> of	residence;
This person is applicant for the purposes of:	all designated S the United State	tates except es of America		United States
Further applicants and/or (further) inventors are indicated on another continuation sheet.				

Sheet	NIo	3

Box No. V DESIGNAT	TONS				
illing date, for the grant of e	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.				
However,					
	esignated for any kind of nation	<u>-</u>			
KR Republic of Korez	a is not designated for any kin	nd of national protection			
RU Russian Federatio	n is not designated for any k	ind of national protection			
ine national law, of an eartie	be used to exclude (irrevocab er national application from w s in these and certain other St	hich priority is claimed S	ned in order to avoid the see the Notes to Box No. I	ceasing of the effect, under V as to the consequences of	
Box No. VI PRIORITY	CLAIM			· · · · · · · · · · · · · · · · · · ·	
The priority of the following	earlier application(s) is hereb	y claimed:			
Filing date of earlier application	Number of earlier application	V	Vhere earlier application	is:	
(day/month/year)	or carner application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office	
item (1) 4 December 2003	0328007.0	GB			
item (2)					
item (3)					
Further priority claims	are indicated in the Supplemen	ntal Box.			
The receiving Office is reque the earlier application was fit above as:	ested to prepare and transmit to led with the Office which for th	o the International Bureau a the purposes of this internat	a certified copy of the eational application is the r	rlier application(s) (only if eceiving Office) identified	
1 — —	em (1) item (2)			e Supplemental Box	
* Where the earlier application	on is an ARIPO application, in ember of the World Trade Or	dicate at least one country	party to the Paris Conve	intion for the Protection of	
· · · · · · · · · · · · · · · · · · ·	••••••	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	ea (Kuie 4.10(b)(ii)):	
Box No. VII INTERNAT	IONAL SEARCHING AUT	HORITY			
Choice of International Sea international search, indicate	arching Authority (ISA) (if no the Authority chosen: the two-	wo or more International Sc -letter code may he used):	earching Authorities are	competent to carry out the	
ISA /	• • • • • • • • • • • • • • • • • • • •		•••••		
Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):					
Date (day/month/year)	Numb	er Count	ry (or regional Office)		
Box No. VIII DECLARAT	TIONS				
The following declarations a check-boxes below and indica	are contained in Boxes Nos. \state in the right column the num	VIII (i) to (v) (mark the ap ber of each type of declara	plicable tion):	Number of declarations	
Box No. VIII (i) Declaration as to the identity of the inventor :					
Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent:					
Box No. VIII (iii) Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application					
Box No. VIII (iv) Declaration of inventorship (only for the purposes of the designation of the United States of America)					
Box No. VIII (v)	Declaration as to non-preju	dicial disclosures or excep	tions to lack of novelty	:	

Box No. IX CHECK LIST; LANGUAGE OF FILING					
This international application contains: (a) in paper form, the following number of sheets:	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items			
request (including declaration sheets) : 4	1. fee calculation sheet	:			
description (excluding	2. original separate power of attorney	:			
sequence listing and/or tables related thereto) : 20	3. original general power of attorney	:			
claims : 5	4. copy of general power of attorney; reference number, if any:	:			
abstract : 1	5. statement explaining lack of signature	:			
drawings : 6	6. priority document(s) identified in Box No. VI as				
Sub-total number of sheets : 36	item(s):	:			
tables related thereto :	(language): 8. Separate indications concerning deposited microorganism	:			
(for both, actual number of	or other biological material	:			
sheets if filed in paper form, whether or not also filed in computer readable form;	 sequence listing in computer readable form (indicate type and number of carriers) 				
see (c) below)	(i) copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application):			
Total number of sheets : 36 (b) only in computer readable form	 (ii) (only where check-box (b) (i) or (c) (i) is marked in left column) additional copies including, where applicable, the copy for the 				
(Section 801(a)(i))	purposes of international search under Rule 13 <i>ter</i> (iii) together with relevant statement as to the identity of the copy or	:			
(i) ☐ sequence listing (ii) ☐ tables related thereto	copies with the sequence listing mentioned in left column	:			
(c) also in computer readable form (Section 801(a)(ii))	 tables in computer readable form related to sequence listing (indicate type and number of carriers) 				
(i) sequence listing	(i) copy submitted for the purposes of international search under				
(ii) tables related thereto	Section 802(b-quater) only (and not as part of the international application)	:			
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the	 (ii) (only where check-box (b) (ii) or (c) (ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater) 	:			
sequence listing:	(iii) together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column				
tables related thereto:	11. other (specify):				
items 9(ii) and/or 10(ii), in right column)	2	•			
Figure of the drawings which	Language of filing of the international application: English				
should accompany the abstract: Box No. X SIGNATURE OF APPLICANT	international application: English T, AGENT OR COMMON REPRESENTATIVE				
	ning and the capacity in which the person signs (if such capacity is not obvious from reading t	he request).			
Simon, Black (HENNECLYS)					
Kènnédys Patent Agency Limited 3 l	December 2004				
	— For receiving Office use only				
Date of actual receipt of the purported international application:	2. Drawi	ngs:			
3. Corrected date of actual receipt due to later but timely received papers or drawings completing					
the purported international application:					
Date of timely receipt of the required corrections under PCT Article 11(2):	not r	eceived:			
International Searching Authority (if two or more are competent): ISA /	6. Transmittal of search copy delayed until search fee is paid				
For International Bureau use only					
Date of receipt of the record copy by the International Bureau:					